Use Attainability Analysis

for

WBID 1032 Sandford Creek

Submitted by Aqua Missouri, Inc.

To Missouri Department of Natural Resources Water Protection Program

SELETYED

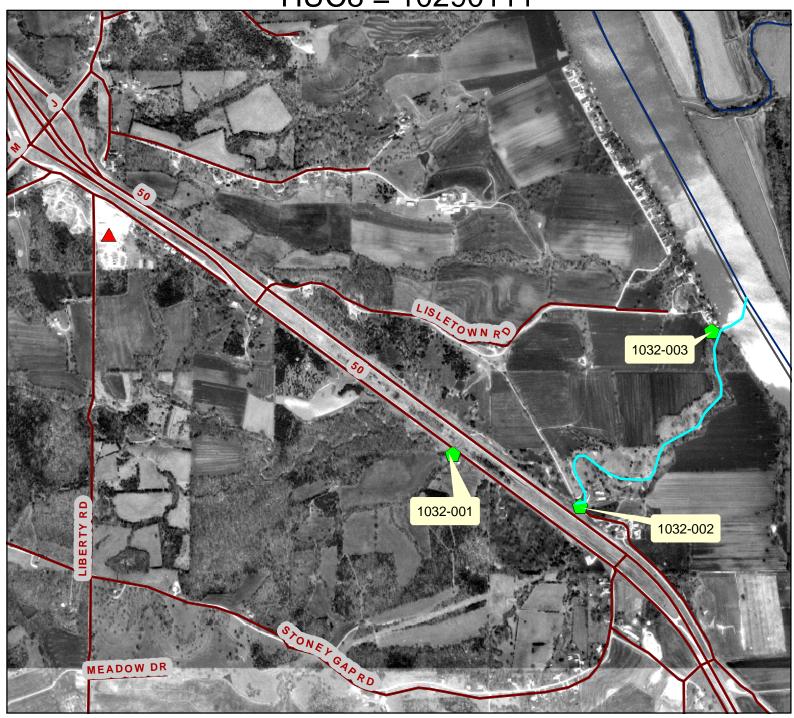
Data Sheet A - Water Body Identification

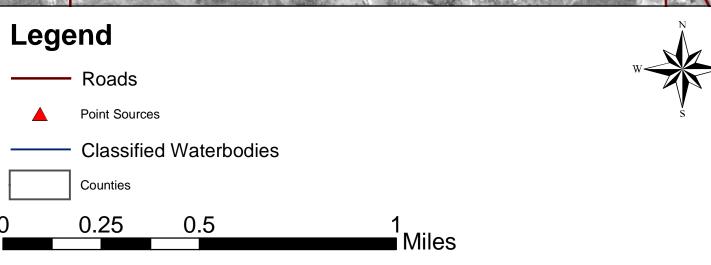
2005 JUL 13 PM 3: 08
WHICH PROTECTION PROGRAM.

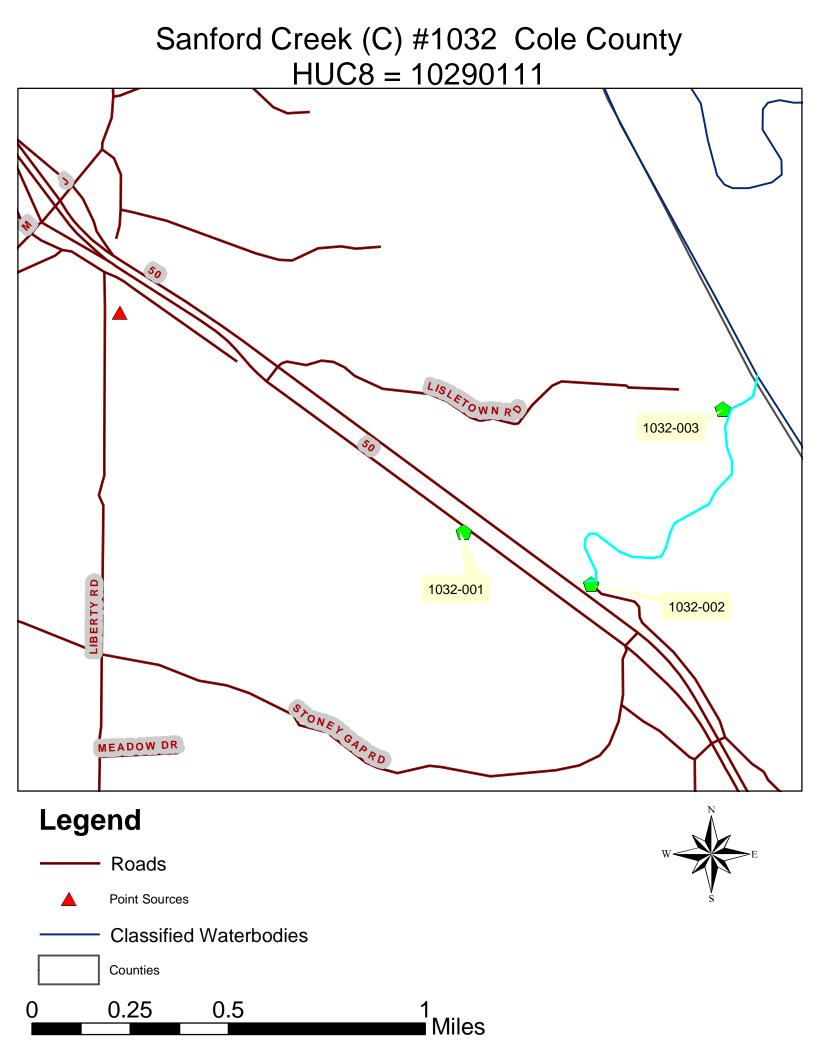
| Water Body Name (from USGS 7.5' quad): Sha Ford Creek |
|--|
| 8-digit HUC: 1400125 (0290/// |
| Missouri WBID #: /0 3 2_ |
| County: Cole |
| Upstream Legal Description: NE 1/4 NW 1/4 Sec 6 T 43N RIOW |
| Downstream Legal Description: |
| Upstream Coordinates: |
| Downstream Coordinates: |
| Discharger Facility Name(s): Survive Meadon |
| Discharger Permit Number(s): Mpg 122 939 |
| Number of Sites Evaluated: 3 |
| Name of Surveyor and Telephone Number: Kevin M. Calu- 615-935-6530 |
| Organization: Agus Missouri |
| Position: Regional Complian Mar- |
| I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate. |
| Signed: M. M. Cole |
| personnel! |
| KMC - Keun M. Culver |
| DB Dom Brancacio |
| THR TANA 1410-Rus/1 |

Sanford Creek (C) #1032 Cole County HUC8 = 102901111032-003 Sanford 1032-002 Legend Roads **Point Sources Classified Waterbodies** Counties 0.25 0.5 1 ■ Miles

Sanford Creek (C) #1032 Cole County HUC8 = 10290111







Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

| Missouri WBID #: 1 | 732-00/ | | Site Location De | escription: upstress | of 32 11 0678 |
|---|---|--|---|--|---|
| Site GPS Coordinates: | | | 1 | · | , , , , , , |
| Date & Time: 7/12 | 105 120 | <u> </u> | Facility Name: | Suarise Men | Poer |
| | DB, THR | | Permit Number: | | |
| Current Weather Conditi | ons: drizzla | 0 | Weather Conditi | ons for Past 7 days: Clry | - today ANI mi |
| Photo Ids: Upstream: 1' | 32-00/ Dov | vnstream: /03 | Other | AT DUT FORD | _ |
| | | | (100-4 t | | |
| es Observed*: | · | | | | |
| | Skin diving | □ sc | UBA diving | ☐ Tubing | ☐ Water skiing |
| ☐ Wind surfing | ☐ Kayaking | Bos | ating | ☐ Wading | Rafting |
| ☐ Hunting | ☐ Trapping | ☐ Fisl | hing | None of the above | Other: |
| Describe: (include numb | er of individuals red tivity – 1 | . 1 | | documentation of evidence | |
| rrounding Condition | tivity - 1 | Mains | Dry Cree | | th Small pools |
| rrounding Condition | tivity - 1 | oromote or im | Dry Cree | K Bed — w | th Small pools |
| rrounding Condition | s*: (Mark all that | oromote or im | pede recreational unservation lands | ses. Attach photos of eviden | th Same Pools |
| rrounding Condition as of interest.) City/county parks | s*: (Mark all that) | promote or im | pede recreational unservation lands | ses. Attach photos of eviden | nce or unusua! Campgrounds Stairs/walkway |
| rrounding Condition ms of interest.) City/county parks Boating accesses | S*: (Mark all that) Playgrounds State parks Fence | oromote or imp | pede recreational unservation lands | ses. Attach photos of evider Urban areas Nature trails | nce or unusual Campgrounds Stairs/walkway |
| rrounding Condition ms of interest.) City/county parks Boating accesses No trespass sign | S*: (Mark all that) Playgrounds State parks Fence | oromote or imp MDC con National Steep slo | pede recreational unservation lands | ses. Attach photos of evider Urban areas Nature trails | nce or unusua! Campgrounds Stairs/walkway |
| rrounding Condition ms of interest.) City/county parks Boating accesses No trespass sign | S*: (Mark all that property of the parks of | oromote or imp MDC con National Steep slo | pede recreational unservation lands forests | ses. Attach photos of evider Urban areas Nature trails Other: | nce or unusual Campgrounds Stairs/walkway |

other items that may be of interest. (Include photographs)

September 29, 2004

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Page 1

^{*}Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

| rage 190 - W | BID # | <i>_:</i> _: | ta Sheet | B - Site Characte | erization | | |
|---|---|-----------------------------|--|--|---|---|-------------------------------------|
| Stream Morph | | | | | | | |
| | | al Dimension | | | pry | | <u></u> . |
| - | Vidth (ft): | | gth (ft): | Avg. Depth | (ft): | Max. Depth (| ft); |
| ∏ Run W | Viđth (ft): | Leng | gth (ft): | Avg. Depth | (ft): | Max. Depth (| ft): |
| ☐ Poot W | Vidth (ft): | Leng | gth (ft); | Avg. Depth | (ft): | Max. Depth (| ft): |
| Flow P | resent? | Yes No | | Estimated (| ft³/sec): | . <u>.</u> | |
| Downstream | n View Phy | sical Dimen: | sions: | | | | |
| | Vidth (ft): | | gth (ft); | Avg. Depth | (ft); | Max, Depth (| ft): |
| Run W | Vidth (ft): | Leng | gth (ft): | Avg. Depth | (ft); | Max. Depth (| ft): |
| [∑i Pool W | Vidth (ft): | Leng | gth (ft): 🏋 | Avg. Depth | (ft): , 4 | Max. Depth (| <u> </u> |
| Flow P | resent? | Yes 🔽 No | , м | Estimated (| | | . 10 |
| | | ~~ | : | | | | |
| Substrate*: (T. | | hould add up to % Gravel | (.%001 | % Sand | % Silt | % Mud/Clay | % Bedrock |
| 1110 | | 70 CH 101 | | 70 Outle | 74 311 | 70 Widd Clay | 76 Belliock |
| Aquatic Vegeta | ation*: (not | e amount of veg | etation or a | algal growth at the ass | essment site) | | |
| Į. | | | | | | | |
| | | | ļ | | | one — | |
| | | | | | | ONE — | |
| Water Charac | teristics*: / | Mark all that or | anly) | | | one — | |
| Water Charact | | | | ☐ Chemical | n | | |
| | | wage 🔲 N | oply.) Musky Green | ☐ Chemical | | Other: | 1/4 |
| Odor: | Sev | wage | Musky | | None Milky | | /A |
| Odor: Color: | Sev | vage Nar Car Sidge S | Musky Green | Gray | None Milky | Other: | /A |
| Odor: Color: Bottom Depos Surface Depos | Sev Cle sit: Slu sit: Oil | vage | Musky Green Solids Scum | Gray Fine sediments | None None Milky None None | ☐ Other: ☐ Other: ☐ Other: ☐ Other: | orm. |
| Odor: Color: Bottom Depos Surface Depos *This information comprehensive unc | Seven Clesit: Slusit: Oil ease attach a is not to be us derstanding of | vage | Musky Green Solids Scum mments (moval of a ns. Conseq | Gray Fine sediments Foam | None Milky None None None None | Other: Other: Other: Other: rviews) to this for is to provide a more d to directly influence. | re ace a |
| Odor: Color: Bottom Depos Surface Depos Comments: Ple *This information comprehensive und decision on the rec I, the undersign datasheet is tru | Seven | wage | Musky Green Solids Soum mments (moval of a ns. Consequent to contact to cont | Gray Fine sediments Foam including informational use designmently, this informational treed further than the control of the co | None Milky None None None None None None | Other: Other: Other: Other: Other: rviews) to this for is to provide a more data directly influentiat effect another us | re ace a se. I on this UAA |
| Odor: Color: Bottom Depos Surface Depos Comments: Ple *This information comprehensive und decision on the rec I, the undersign datasheet is tru | Seven | wage | Musky Green Solids Soum mments (moval of a ns. Consequent to contact to cont | Gray Fine sediments Foam including informations that need furt | None Milky None None None None None None | Other: Other: Other: Other: Other: rviews) to this for is to provide a more data directly influentiat effect another us | re ace a se. I on this UAA |

Data Sheet B - Site Characterization
(A separate data sheet must be completed for each site)

| Missouri WBID #: 10 Site GPS Coordinates: | | | | | | | | | | |
|--|--|--------------------|---|------------------------------|------------------------------------|--|--|--|--|--|
| Site CPS Coordinates | 32-00人 | | Site Location Description: | | | | | | | |
| Site Cit 3 Coortunates. | | | Facility Name: Sur Rise Meadow | | | | | | | |
| Date & Time: 7//2 | - 12: | 25 | Facility Name: Sur Rise Meadow | | | | | | | |
| Personnel: KMC | DB THR | | Permit Number: | Mn 012 2 489 | | | | | | |
| Current Weather Condition | | | Permit Number: MO 0/2 2 939 Weather Conditions for Past 7 days: Wy - Hein Conditions for Past 7 days: Wy - This Assertion (Conditions) | | | | | | | |
| Photo Ids: Upstream: 103 | 32-007 Dow | nstream: IC | | | | | | | | |
| | <u> υρ</u> , | | 404 | | | | | | | |
| Uses Observed*: | | | | | | | | | | |
| ☐ Swimming | Skin diving | □ sc | UBA diving | ☐ Tubing | ☐ Water skiing | | | | | |
| ☐ Wind surfing | ☐ Kayaking | ☐ Box | ating | ☐ Wading | Rafting | | | | | |
| ☐ Hunting | ☐ Trapping | ☐ Fis | - | None of the above | Other: | | | | | |
| Surrounding Condition | 8*: (Mark all that p | promote or im | pede recreational u | ses. Attach photos of eviden | nce or unusual | | | | | |
| | _ | | | _ | | | | | | |
| items of interest.) | | | | | , | | | | | |
| City/county parks | ☐ Playgrounds | <u> </u> | nservation lands | Urban areas | Campgrounds | | | | | |
| ☐ City/county parks ☐ Boating accesses | ☐ Playgrounds | ☐ National | forests | ☐ Nature trails | ☐ Stairs/walkway | | | | | |
| City/county parks | · <u>· · · · · · · · · · · · · · · · · · </u> | <u> </u> | forests | <u> </u> | ☐ Stairs/walkway | | | | | |
| ☐ City/county parks ☐ Boating accesses ☐ No trespass sign | State parks | ☐ National | forests | ☐ Nature trails | ☐ Stairs/walkway | | | | | |
| ☐ City/county parks ☐ Boating accesses ☐ No trespass sign Evidence of Human Use | State parks Fence | ☐ National | forests opes | □ Nature trails □ Other: NON | Stairs/walkway | | | | | |
| ☐ City/county parks ☐ Boating accesses ☐ No trespass sign Evidence of Human Use ☐ Roads | State parks Fence *: Foot paths/prin | National Steep slo | forests ppes Oock/platform | □ Nature trails □ Other: NON | Stairs/walkway C RV / ATV Tracks | | | | | |
| ☐ City/county parks ☐ Boating accesses ☐ No trespass sign Evidence of Human Use | State parks Fence Foot paths/prin Camping Sites | National Steep slo | forests opes | □ Nature trails □ Other: NON | Stairs/walkway | | | | | |

Data Sheet B - Site Characterization

| | ge Two – | | | <u>01</u> :0 | or " | | | | | | | | | | |
|--|--|--|------------------------------------|--|---|--|--|---------------------------------------|-------------------|--|------------------------------------|------------------------------------|--|----------------------|---|
| | eam Mor Upstream | | • | vsical D | imene | ions: | | | | | | | | | |
| [| ☐ Riffle | Width (| | | • | ngth (ft): | <u> </u> | | Avg. Depth | (ft): | | N | Max. Depth | (ft): | |
| ł | Run | Width (| ft): | | | ngth (ft): | İ | | Avg. Depth | | | | Aax. Depth | | |
| ł | ▼ Pool | Width (| | 91 | | ngth (ft): | : | | Avg. Depth | | 3 | | Max. Depth | | 1- |
| ł | Flow | Present | | Yes | X) No | | _رر | | Estimated (f | • | <u>=1</u> | | 2 F/o | | |
| | | | | | | | | | | · · · | | 14 | <u>Z730</u> | 4) | |
| { | Downstre: | | | Physica | | | <u> </u> | | | | | | ·· | | |
| | Riffle | Width (| | | | ngth (ft): | | | Avg, Depth | · · · · · · · · · · · · · · · · · · · | | N | Max. Depth | (ft): | |
| | Run | Width (| ft): | | Le | ngth (ft): | | | Avg. Depth | (ft): | | | Max. Depth | <u> </u> | |
| | Pool | Width (| ft): | 8' | Le | ngth (ft): | 100 | <u>'</u> | Avg. Depth | (ft): | .6 | N | Max. Depth | (ft): | $L^{I'}$ |
| | D Flow | Present | ? | ☐ Yes | X No | , | | | Estimated (f | t³/sec): | | N | 1=10W | , | - " |
| , | | | | | | | | | | | | | | | |
| u | ostrate*: | (These y 6 Cobble | | | add up % Grave | | 25 % | Sand | | 0/ C:14 | . [| 0/ | Mod/Class | | 0/ D- 41- |
| ļ | | 6 COODIE | | <u> </u> | 70 Urave | ; <u>;</u> | <u> </u> | Sano | | % Silt | <u> </u> | % 0. | Mud/Clay | | % Bedrock |
| / <u>{</u> | ter Char | acterist | _ | *: (Mark Sewage | all that | apply.)] Musky | | | mical | Non | . | | Other: | | |
| ł | Color: | - | | Clear | | Green | <u> </u> | Gra | | Milk | | - | Other: | | |
| ł | Bottom De | posit: | Ħ | Sludge | ┯┾ | Solids | <u> </u> | | sediments | Non | | - - | Other: | | |
| ŀ | Surface De | | Ħ | Oil | | Scum | <u> </u> | Foa | | ☑ Non | | ᅮ | Other: | | |
| The column of th | is information of the sion on the unders asheet is | on is not understar recreation signed, true an | to b ndin n us her d a | ne used so ng of wate se analysi reby aff necurate | olely for er condit s but me firm to | removal or tions. Con ay point to the bes | of a recrusequent condition | eation tly, th ions th y kno | _ | nation but n is not in ter analysi | rather is stended is or that | s to p to dir t effe atio | rovide a mo rectly influe ct another o | ore mce a use. | this UAA |
| ig | ned: | | 1 <u>U</u> 1 | ~ / /// | ·W | | <u> </u> | | Date: Position | · | //2 | /0 | 25 | | |
| Ţ | ganization | :_ <i></i> | 14 | Mu. | 11/1/5 | 50W | <u> </u> | | Position | n: <i>[51</i> | v_U | | na lu | o 11 | 11/10 |
| | | | | | | | | , | | <u> </u> | • | C. C | 190 // 44 | | <u>, , , , , , , , , , , , , , , , , , , </u> |

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

| Missouri WBID#: | 032-003 | | Site Location De | escription: Tyle-Gook | KeT-fe | | | |
|---|---|------------------------------------|---|--|---|--|--|--|
| Site GPS Coordinates: | | · · · | 1 | | | | | |
| Date & Time: 7/ | 2/05 /2 | 40 | Facility Name: Sunrise Medan | | | | | |
| Personnel: Khe L | 12/05 12: DB. THR | | Permit Number: 100 0122 93 9 Weather Conditions for Past 7 days: 10 C x gft (wreaf Rame (ext) | | | | | |
| Current Weather Cond | itions; ETROP | : | | | | | | |
| Photo Ids: Upstream: | 1032 00 3 Dov | vnstream: 103 | 32-003 Othe | r: | | | | |
| | <u> </u> | | | | | | | |
| Jses Observed*: | | | | T | · · · · · · · · · · · · · · · · · · · | | | |
| Swimming | Skin diving | □ SC | UBA diving | ☐ Tubing | ☐ Water skiing | | | |
| ☐ Wind surfing | | ☐ Bo | ating | ☐ Wading | Rafting | | | |
| ☐ Hunting | ☐ Trapping | ☐ Fis | ~ | None of the above | Other: | | | |
| Describe: (include num | ber of individuals rec | xeating, frequ | ency of use, photo- Dry Corell | Section of evidence 3ections | of recreational uses, etc.) 7 Poun s tra | | | |
| Surrounding Condition | | , | Dry Corell | Section of evidence is a section of evidence i | + Pounstra | | | |
| Surrounding Conditions of interest.) | ons*: (Mark all that p | promote or im | Dry Corell | Bed up Street | nce or unusual | | | |
| Surrounding Condition tems of interest.) | Ons*: (Mark all that p | promote or im | pede recreational unservation lands | sees. Attach photos of evider | nce or unusual | | | |
| Surrounding Condition tems of interest.) City/county parks Boating accesses | ons*: (Mark all that parks) Playgrounds State parks | promote or im MDC co | pede recreational unservation lands | ses. Attach photos of evider Urban areas Nature trails | nce or unusual | | | |
| Surrounding Condition tems of interest.) | Ons*: (Mark all that p | promote or im | pede recreational unservation lands | sees. Attach photos of evider | nce or unusual | | | |
| Surrounding Condition tems of interest.) City/county parks Boating accesses No trespass sign | Playgrounds State parks Fence | promote or im MDC co | pede recreational unservation lands | ses. Attach photos of evider Urban areas Nature trails | nce or unusual | | | |
| Surrounding Condition tems of interest.) City/county parks Boating accesses No trespass sign | Playgrounds State parks Fence | Dromote or im ☐ MDC co ☐ National | pede recreational unservation lands | ses. Attach photos of evider Urban areas Nature trails | nce or unusual | | | |
| Surrounding Condition tems of interest.) City/county parks Boating accesses No trespass sign | Playgrounds State parks Fence | promote or im MDC co National | pede recreational unservation lands forests opes | ses. Attach photos of evider Urban areas Nature trails Other: | nce or unusual Campgrounds Stairs/walkway | | | |

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

^{*}Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Data Sheet B - Site Characterization

| Page Two - WBID | # <u>1032</u> : 00 | 23 | • | | | |
|---|--------------------|-------------------|---------------------------|------------------|---------------------------------------|--------------|
| Stream Morpholog Upstream View | 200 | nensions: | | | | |
| ☐ Riffle Width | (ft): | Length (ft): | Avg. Depth | (ft): | Max. Depth (ft) | : |
| Run Width | (ft): | Length (ft): | Avg. Depth (| (ft): | Max. Depth (ft) | : |
| Pool Width | (fi): | Length (ft): | Avg. Depth (| (ft): | Max. Depth (ft) | : |
| Flow Preser | nt? 🗌 Yes | No | Estimated (fl | t³/sec): | Flow - | |
| Downstream Vi | ew Physical I | Dimensions: | | | | • |
| ☐ Riffle Width | | Length (ft): | Avg. Depth (| (ft); | Max. Depth (ft) | |
| ☐ Run Width | (ft); | Length (ft): | Avg. Depth (| (ft): | Max. Depth (ft) | : |
| Pool Width | (ft): | Length (ft): | Avg. Depth (| (ft): | Max. Depth (ft) | : |
| Flow Presen | nt? Yes | No | Estimated (fl | t³/sec): | · · · · · · · · · · · · · · · · · · · | |
| Substrate*: (These | | | % Sand 2 | % Silt | % Mud/Clay | % Bedrock |
| Water Characteris | stics*: (Mark a | ll that apply.) | | | | |
| Odor: | ☐ Sewage | Musky | ☐ Chemical | None | Other: | |
| Color: | Clear | Green | ☐ Gray | Milky | | rufts - |
| Bottom Deposit: | Sludge | Solids | Fine sediments | None | Other: | |
| Surface Deposit: | [_] Oil | Scum | ☐ Foam | None None | Other: | |
| Comments: Please | attach additio | onal comments (| including informati | ion from inte | rviews) to this for | m. |
| *This information is no comprehensive understa decision on the recreati | anding of water | conditions. Conse | quently, this information | n is not intende | ed to directly influence | 2 B |
| I, the undersigned datasheet is true a | • | m to the best o | of my knowledge, th | hat all infor | mation reported | on this UAA |
| Signed: <u>///we</u> | Mi Cuh | | Date: | 7/12/0 | 25 | |
| Signed: //we // | gar Mu | soni | Position | n: trv | Corplain W | ile |